DESKLINE®
IMPROVING ERGONOMICS

DB5/DB6 system

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WWW.LINAK.COM

LINAK®
WE IMPROVE YOUR LIFE

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Preface

We are delighted that you have chosen a product from LINAK A/S. LINAK systems are high-tech products based on many years of experience in the manufacture and development of actuators, electric control boxes, controls, and chargers. We are also constantly improving our products to meet customer requirements.

This User Manual will tell you how to install, use and maintain your LINAK DESKLINE® products.

We are sure that the DESKLINE® products will give you many years of problem-free operation. Before our products leave the factory they undergo full function and quality testing. Should you nevertheless experience problems with your systems, you are always welcome to contact our service departments or service centres.

LINAK subsidiaries and distributors all over the world have authorised service centres, which are always ready to help you.

LINAK provides a warranty on all its products. This warranty, however, is subject to correct use in accordance with the specifications, maintenance being done correctly and any repairs being carried out at a service centre, which is authorised to repair LINAK products.

Changes in installation and use of LINAK systems can affect their operation and durability. Changes must therefore only be made by agreement with LINAK A/S and are made at your own risk.

LINAK A/S

Important information

Important information on LINAK® products can be found under the following headings:

Warning!
Failure to comply with these instructions may result in accidents involving serious personal injury.

Failing to follow these instructions can result in the product being damaged or being destroyed.

Safety instruction

General

Safe use of the system is possible only when the operating instructions are read completely and the instructions contained are strictly observed.

Failure to comply with instructions marked with the "NOTE" symbol may result in serious damage to the system or one of its components.

It is important for everyone who is to connect, install, or use the systems to have the necessary information and access to this User Manual. Follow the instructions for mounting – risk of injury if these instructions are not followed.

The appliance is not intended for use by young children or infirm persons without supervision.

If there is visible damage on the product it must not be installed.

Note that during construction of applications, in which the actuator is to be fitted, there must be no possibility of personal injury, for example the squeezing of fingers or arms.

Assure free space for movement of application in both directions to avoid blockade.

Before installation, reinstallation or troubleshooting:

- Stop the DB5/DB6
- Switch off the power supply and pull out the mains plug.
- Relieve the DB5/DB6 of any loads, which may be released during the work.

Before start-up:

- Make sure that the system has been installed as instructed in this User Manual.
- Make sure that the voltage at the control box is correct before the system is connected to the mains.
- System connection. The individual parts must be connected before the control box is connected to the mains. See the User Manual for LINAK actuators, if necessary.

During operation

- If the control box makes unusual noises or smells switch off the mains voltage immediately.
- Take care that the cables are not damaged.
- Unplug the mains cable on mobile equipment before it is moved.
- The products must only be used in an environment, which corresponds to their IP protection.

Misc.

The actuator system has a sound level below 55dB(A) in typical applications.

Updated manuals and declarations can always be found here:
www.linak.com/deskline

Only for EU markets

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Only for Non EU markets

Persons who do not have the necessary experience or knowledge of the product/products must not use the product/products. Besides, persons with reduced physical, sensory or mental abilities must not use the product/products, unless they are under surveillance or they have been thoroughly instructed in the use of the apparatus by a person who is responsible for the safety of these persons.

Moreover, children must be under surveillance to ensure that they do not play with the product.

It is the operator's responsibility to ensure that there is free space for the application to move without risk for the operator or bystanders before operating the application.

Misuse

Do not overload the actuators – this can cause danger of personal injury and damage to the system.

Do not use the actuator system for lifting persons. Do not sit or stand on a table while operating – risk of personal injury.

Do not use the system in environments other than the intended indoor use

Repairs

In order to avoid the risk of malfunction, all DESKLINE® repairs must only be carried out by authorised LINAK workshops or repairers, as special tools must be used and special gaskets must be fitted. Lifting units under warranty must also be returned to authorised LINAK workshops.

Warning!
If any of the DESKLINE® products are opened, there will be a risk of subsequent malfunction.

Warning!
The DESKLINE® systems do not withstand cutting oil.

DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

LINAK A/S
Smedevænget 8
DK - 6430 Nordborg

Name and address of the person authorized to compile the relevant technical documentation:
John Kling, Group Headquarters, Guderup, DK-6430 Nordborg, email jkl@linak.com

Herewith declares that LINAK Actuators and Actuator Systems comply with the following parts of the Machinery Directive 2006/42/EC, ANNEX I, *Essential health and safety requirements relating to the design and construction of machinery*:
1.5.1 Electricity supply: *Directive 2006/95/EC on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.*
1.5.10 Radiation, 1.5.11 External radiation: *Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.*

The relevant technical documentation is compiled in accordance with part B of Annex VII and that this documentation or part hereof will be transmitted by post or electronically to a reasoned request by the national authorities.

This partly completed machinery must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of this Directive, where appropriate.

Date: 2010-01-01

Signature:

John Kling
Certification and Regulatory Affairs

Misc. on the DESKLINE® DB5/DB6 system

This system is a DESKLINE system developed for desks and for indoor use in offices. Do not use it in industrial kitchens or in other enviroments that have to be cleaned with aggressive detergents.
Do not bolt the legs to the floor so that free movement is prevented. This could cause serious damage to the legs in fault situations.

Warranty
There is a 36 months' warranty on the DESKLINE products against manufacturing faults from the production date of the individual products (see label).
LINAK A/S' warranty is only valid in so far as the equipment has been used and maintained correctly and has not been tampered with. Furthermore, the system must not be exposed to violent treatment. In the event of this, the warranty will be ineffective/invalid. For further details, please see LINAK A/S ordinary conditions of sale.

Maintenance
Clean dust and dirt on the outside of the system at appropriate intervals and inspect them for damage and breaks.
Inspect the connections, cables, and plugs and check for correct functioning as well as fixing points.

Service of double-insulated products:

Class II

A Class II or **double insulated** electrical appliance is one which has been designed in such a way that it does not require a safety connection to electrical earth (US: ground).
The basic requirement is that no single failure can result in dangerous voltage becoming exposed so that it might cause an electric shock and that this is achieved without relying on an earthed metal casing. This is usually achieved at least in part by having two layers of insulating material surrounding live parts or by using reinforced insulation.
There is no earthing/grounding means provided on the product, and no earthing/grounding means is to be added to the product.
In Europe, a double insulated appliance must be labelled "Class II", "double insulated" or bear the double insulation symbol (a square inside another square).
Servicing a double-insulated product requires extreme care and knowledge of the system, and is to be done only by qualified service personnel. Replacement parts for a double-insulated product must be identical to the parts they replace.

The cleaners and disinfectants must not be highly alkaline or acidic (pH value 6-8).

Description of the DESKLINE® DB5/DB6 system

Each DESKLINE® DB5/DB6 actuator is equipped with a motor and parallel/memory drive is ensured by means of software in the CBD4/CBD5/CBD6 that also takes account of oblique load on the desk. Soft start and stop are also part of this software, which ensures a soft start and stop when adjusting the desk.

Application of the DESKLINE® DB5/DB6 system:
Irrespective of the load the **duty cycle 10% ~ 6 min./ hour or max. 2 min. at continuous use** stated in the data sheets, must **NOT** be exceeded as this will result in a superheating of the motor, the brake and the spindle nut. Exceeding the duty cycle will result in a dramatic reduction of the life of the system.

The system must not be allowed to collide with and be blocked by an external object. In such a case the working parts of DB5/DB6 can be damaged. If the system collides with an object e.g. If the desktop is stopped by a window ledge, then the system should be examined to see as to whether the DB5/DB6 still functions correctly.

The DESKLINE® DB5/DB6 system range contains following products:
- 1 control box CBD4/CBD5/CBD6
- 1 single DB5/DB6 or 2, 3, or 4 parallel
- 1 exchangeable mains cable
- 1, 2, 3, or 4 motor cables
- 1 DP1U/DPF1M (if memory function is required) or 1 DPA/DPB/DP1K/DP1V/DPF1K (if only up/down is required.)

Mounting guidelines for the DESKLINE® DB5 system

The motor housing is supplied with 6 pcs. M6 threaded holes meant for mounting on the desk frame. We advise you to fasten the desk frame by means of 6 pcs. M6 screws of a good quality and a suitable length, which must not go further into the motor housing than max.10 mm. The thrust moment must not exceed 7.5 Nm.

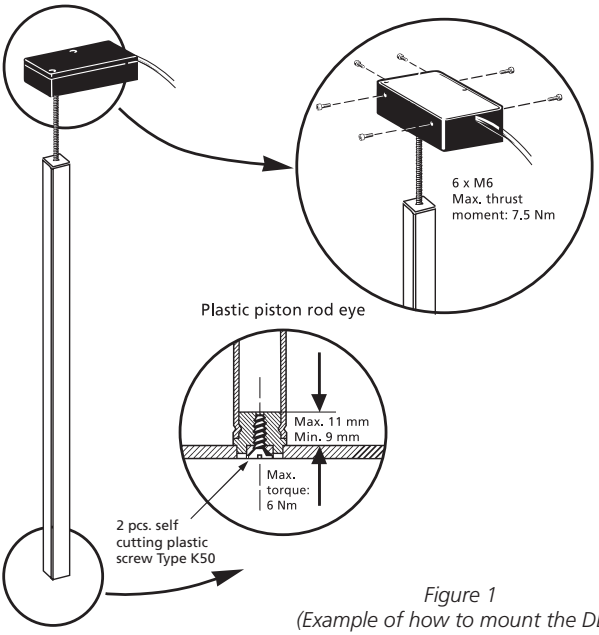
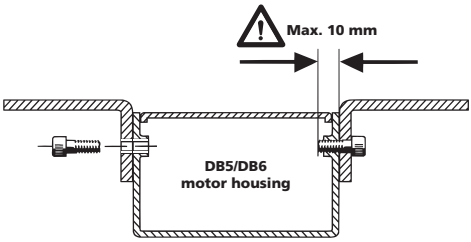


Figure 1
(Example of how to mount the DB5)



It is important that the correct screws are used.
Check that the screws are fitted correctly to ensure a correct function to prevent the guidance from coming apart when the desktop is lifted.

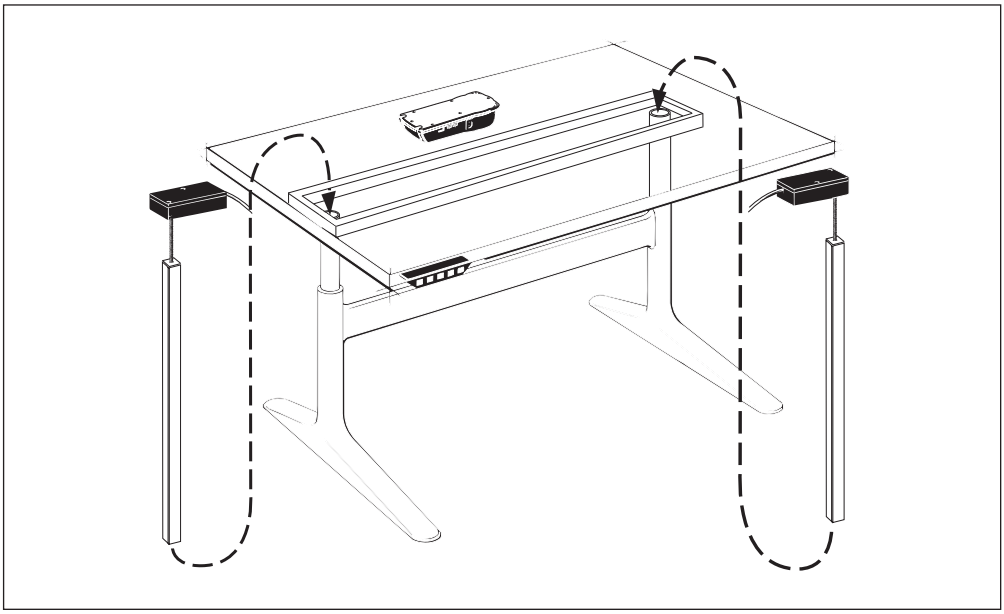


Figure 2
(Example of how to mount the DB5 system)

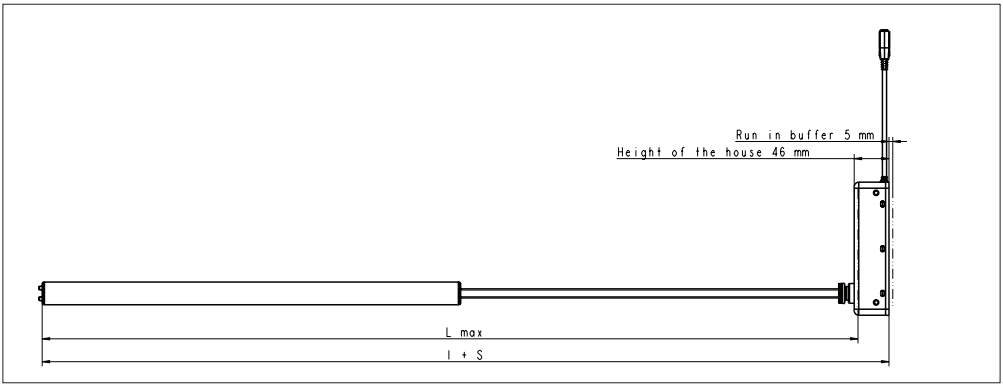
LINAK recommends that the DESKLINE® DB5 system should be used in push applications - with the motor housing upwards.

Placement of a monitor directly above the motor housing may cause malfunction of the monitor. Magnets inside the motor may interrupt the picture on the monitor depending on the distance and type of monitor. If this is the case the problem may be solved by placing an iron plate/tube or another magnetic material, somewhat larger than the motor housing, between the motor and the tabletop.

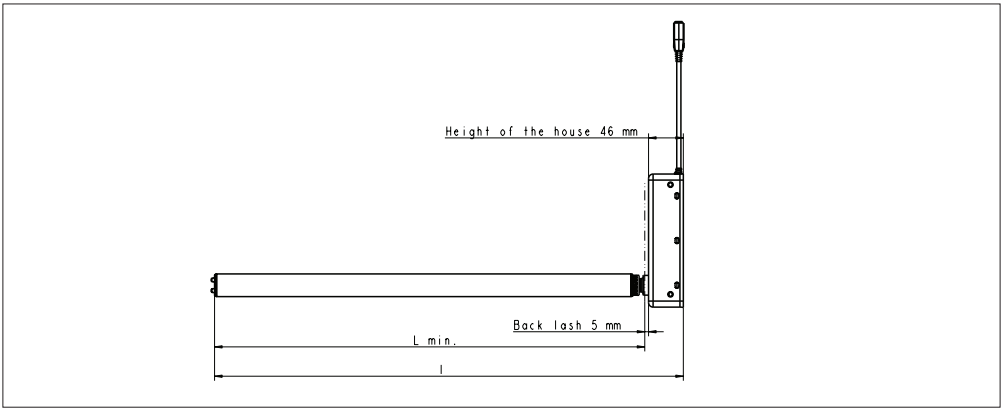
The endstop system in the DB5 is based on a buffer system meaning that you must be aware of the lengths when initialising. The products must be able to drive:

Inward direction: built-in dimension - tolerances – 5 mm
Outward direction: built-in dimension + stroke length + tolerances + 5 mm

DB5 (fully extended)



DB5 (fully retracted)



Mounting guidelines for the DESKLINE® DB6 system

The motor housing is supplied with 6 pcs. M6 threaded holes meant for mounting on the desk frame. We advise you to fasten the desk frame by means of 6 pcs. M6 screws of a good quality and a suitable length, which must not go further into the motor housing than max.10 mm. The thrust moment must not exceed 7.5 Nm.

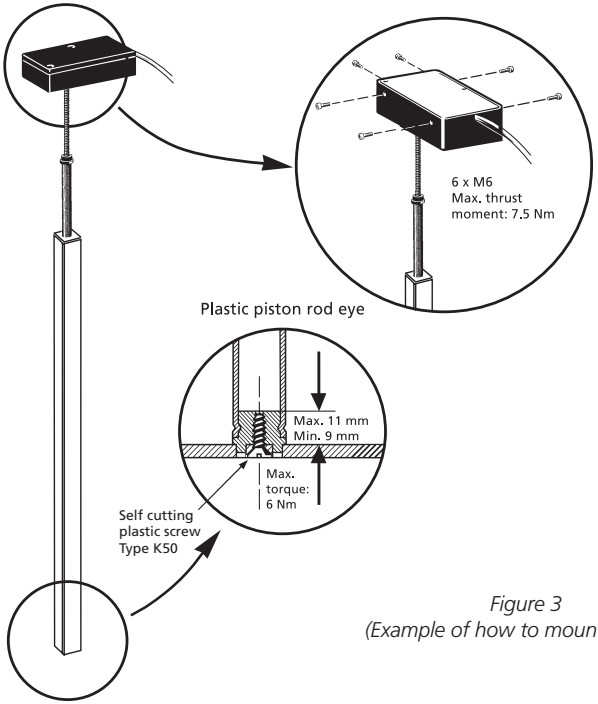
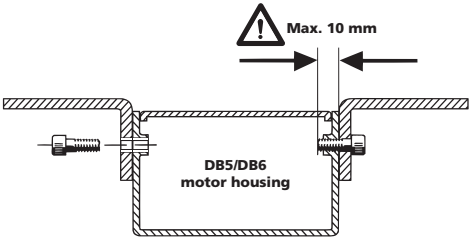


Figure 3
(Example of how to mount the DB6)



It is important that the correct screws are used.
Check that the screws are fitted correctly to ensure a correct function to prevent the guidance from coming apart when the desktop is lifted.

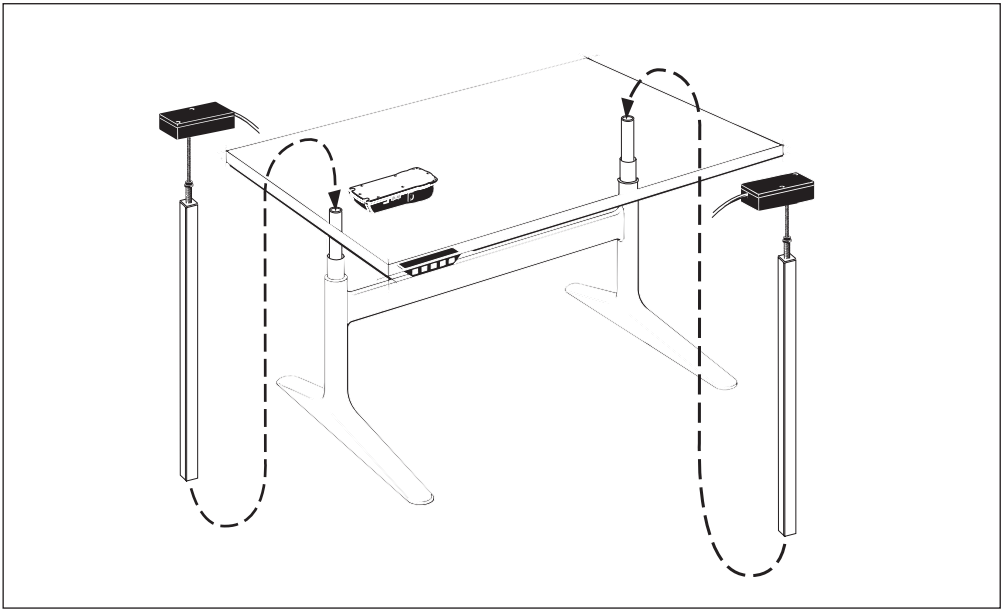


Figure 4
(Example of how to mount the DB6 system)

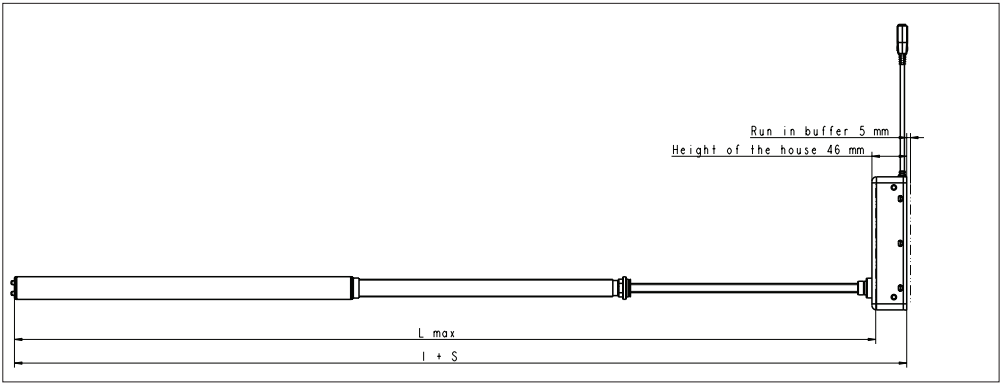
LINAK recommends that the DESKLINE® DB6 system should be used in push applications - with the motor housing upwards.

Placement of a monitor directly above the motor housing may cause malfunction of the monitor. Magnets inside the motor may interrupt the picture on the monitor depending on the distance and type of monitor. If this is the case the problem may be solved by placing an iron plate/tube or another magnetic material, somewhat larger than the motor housing, between the motor and the tabletop.

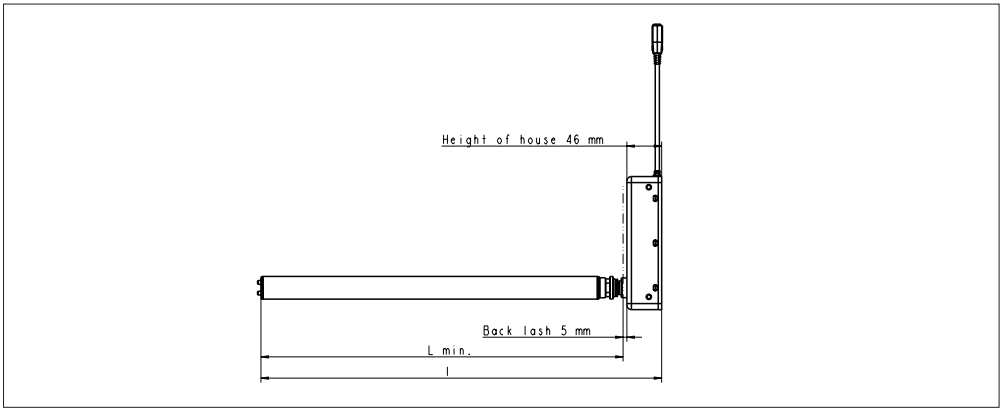
The endstop system in the DB6 is based on a buffer system meaning that you must be aware of the lengths when initialising. The products must be able to drive:

Inward direction: built-in dimension - tolerances – 5 mm
Outward direction: built-in dimension + stroke length + tolerances + 5 mm

DB6 (fully extended)

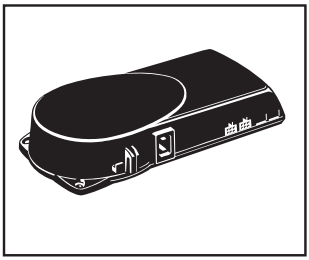


DB6 (fully retracted)



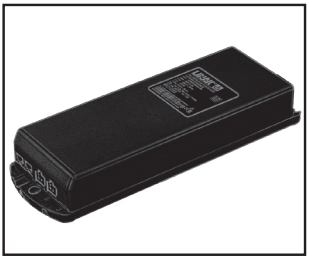
Mounting guidelines CBD4/CBD5/CBD6

The control box is to be fastened with 4 screws (3 screws for CBD5 and CBD6) with a head diameter between ø 8 and ø 10 mm. Out of regard for the tension surface ø 10 mm is preferable due to lower surface tension. See drawing appendix for placing of mounting holes and the space the CBD takes up.



CBD4 - Control box

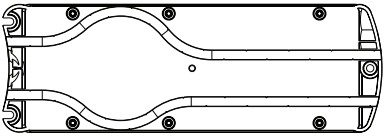
CBD5 - Control box



CBD6 - Control box

The CBD must not be packed in heat insulating material, but must be placed so that it can emit waste heat into the surroundings. There are no ventilation holes to consider, the CBD emits heat through the surface.
The plug must be visible when the CBD is mounted so that the supply to the CBD can be disconnected at replacement, if any.
The mounting screws on the control box must be fastened with a max. torque of 1 Nm.
The mounting surface to which the control box is attached should have a surface evenness of better than ± 0.5 mm.

CBD6 - bottom with cable grooves
The bottom of CBD6 is equipped with two cable grooves improving the cable management when mounting. The grooves can be used to bypass the CBD for both motorcables and the mains cable (EU version only) from one side to the other, giving a cleaner design.



Remember to lead the cables through the grooves before mounting the control box.

For mounting and operation of the desk panel, please see the separate user manual for desk panels.

Electrical connection of the DB5/DB6 system:

The DESKLINE® DB5/DB6 system is to be connected as shown on figure 5. Each DB5/DB6 is to be connected to the sockets on the control box by means of the motor cables, which have an 6-pin plug in each end. All DB5/DB6 actuators are connected on the same side on the control box.

Finally the mains cable is to be mounted and power switched on.

Please note that the control box must only be connected to the voltage stated on the label.

Voltage must not be connected to CBD4/CBD5 until all actuators/legs have been connected. This must be observed to ensure that CBD4/CBD5 can detect, which actuators/legs have been connected.

CBD4/CBD5/CBD6 with earth
The CBD4/CBD5/CBD6 earth cable to be mounted on the desk construction (typically the top frame) in a way that ensures good electrical contact. The function of the earth cable is to earth the desk and ground static electricity. The earth connection does not protect other electrical products.

CBD4/CBD5 with mains cut-off (non ZERO models)
If the power cable is damaged it has to replaced by an authorized LINAK service centre to avoid any danger.

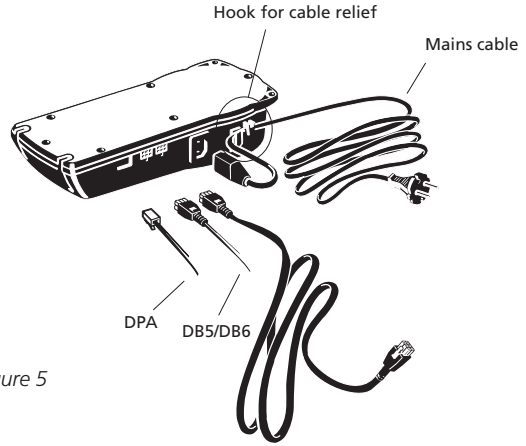


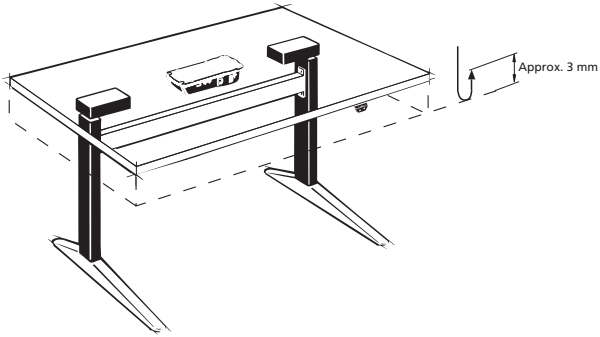
Figure 5

Initialisation of the DESKLINE DB5/DB6 parallel systems

The DESKLINE system is intialised by pressing the down key once or twice and holding it down until DB5/DB6 runs into end stop, it will then automatically run approx. 3 mm out again. Only release the down key when the movement has completely stopped.

If the key is released before the sequence is complete then the initialisation is interuppted and must be started again from the beginning.

It is sometimes necessary to press the down key twice to start the initialisation, this is because the system can be in different modes when the initialisation starts.



The CBD5 and CBD6 can control the DB5 and the DB6 in 2 parallel while the CBD4 can control the DB5 and the DB6 in 2, 3 and 4 parallel so that the desk is always kept horizontals.

Accessories and repair

Ordering accessories
Order from your nearest LINAK® dealer or subsidiary.

Accessories
Please contact your nearest LINAK dealer for information.

Repairs
Systems should only be repaired by an authorised LINAK service centre or engineer. Systems to be repaired under warranty must be sent to an authorised LINAK service centre.

Warning!
By unauthorised opening of the system there is a risk that it may malfunction at a later date.

Spare parts
Please contact your nearest LINAK dealer for information on spare parts.

Disposal of LINAK's products

As LINAK's customers often ask us how our products can be disposed of or scrapped we have prepared this guidance that enables a classifi cation to different waste fractions for recycling or combustion.

Guidance

We recommend that our products be disassembled as much as possible and divided into different waste groups for recycling or combustion.

For example, waste can be sorted into metals, plastics, cable scrap, combustible material, and recoverable resources.

Some of these main groups can be further divided into subgroups; e.g. metal can be divided into steel/ aluminium/copper and plastic can be divided into ABS/PA/PE/PP.

As an example, the table below breaks down the different components in LINAK products to various recycling groups:

Product	Components	Recycling group
Columns/ Actuator :	Spindle and motor Plastic housing Cable PCB boards	Scrap Plastic recycling or combustion Cable scrap or combustion Electronics scrap
Control Box :	PCB boards Plastic housing Cable Transformer	Electronics scrap Plastic recycling or combustion Cable scrap or combustion Metal scrap
Handset/Control :	Plastic housing Cable PCB board	Plastic recycling or combustion Cable scrap or combustion Electronics scrap

By now almost all our casted plastic parts are supplied with an interior code for plastic type and fibre contents, if any.

Main groups of disposal

Product main groups	Metal scrap	Cable scrap	Electronics scrap	Plastic recycling or combustin	Comments
DB5/DB6	X	X	X	X	
CBD4/CBD5/CBD6	X	X	X	X	
DPXX		X	X	X	
WDPL		X	X	X	

Disposal of batteries

Details regarding safe disposal of used and leaking batteries:
Batteries should be disposed in accordance with appropriate federal, state and local regulations. LINAK recommends that used or leaking batteries are disposed through local recycling system. Please do not throw used or leaking batteries in normal household waste or in nature. This will cause damage to the enviroment.

How to deal with leaking batteries.

Leaking batteries should be disposed as described above.
If leaking batteries are discovered in the product the batteries must be removed at once to minimise damage to the product. If leaking batteries are left in the product it might become defect.

It is recommended to use plastic gloves when handeling leaking batteries. The contents of a leaking batteries can cause chemical burns and respiratory irritation.

If exposed to the contents of a leaking battery, please wash with soap and water. If irritation persists, please seek medical attention. In case of eye contact, please flush eyes thoroughly with water for 15 minutes and seek medical attention."

Label for DB5

Label for DB6

Label for CBD4

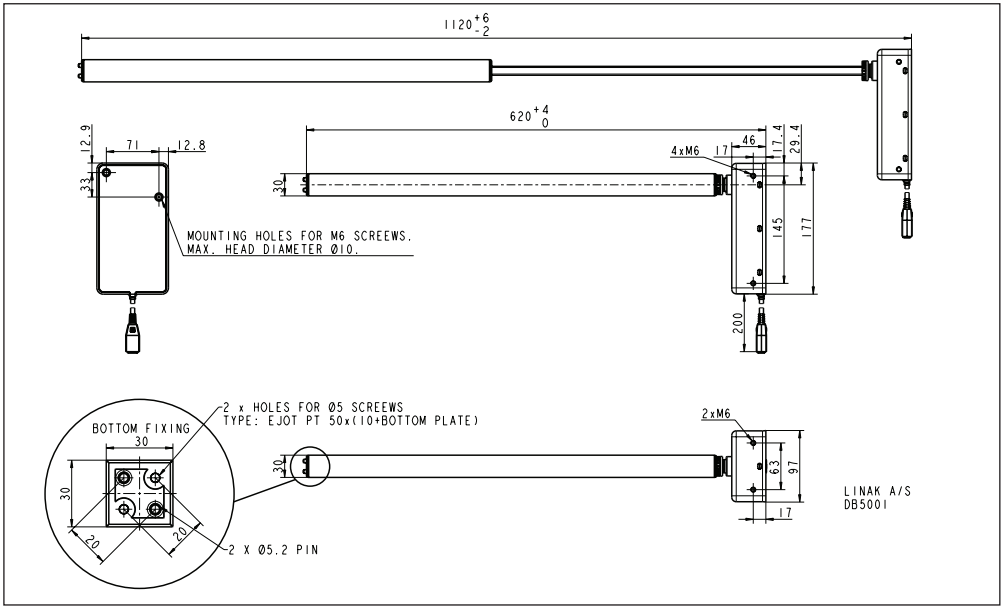
Label for CBD5

Label for CBD6

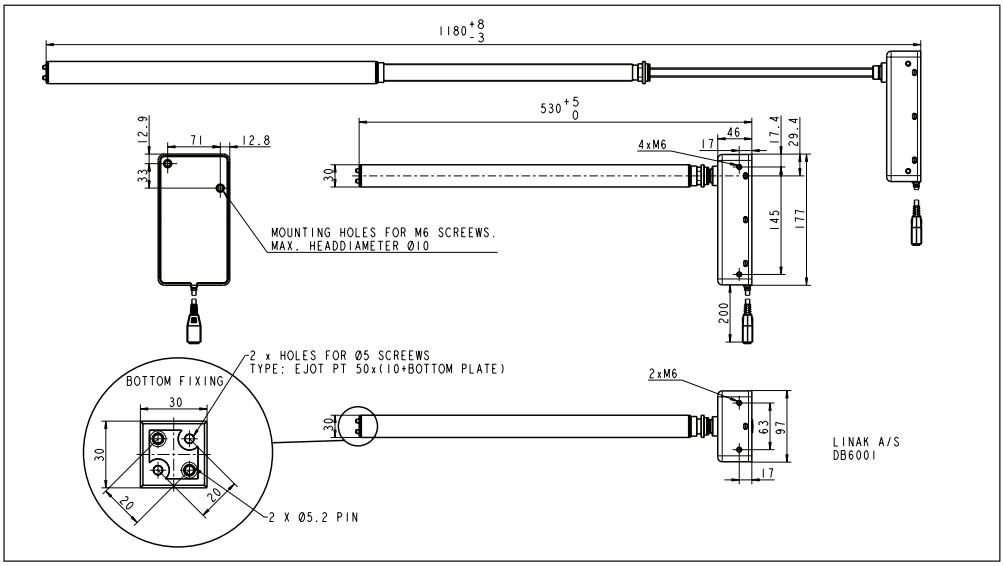
DRAWING APPENDIX

DESKLINE® DB5/DB6 System:

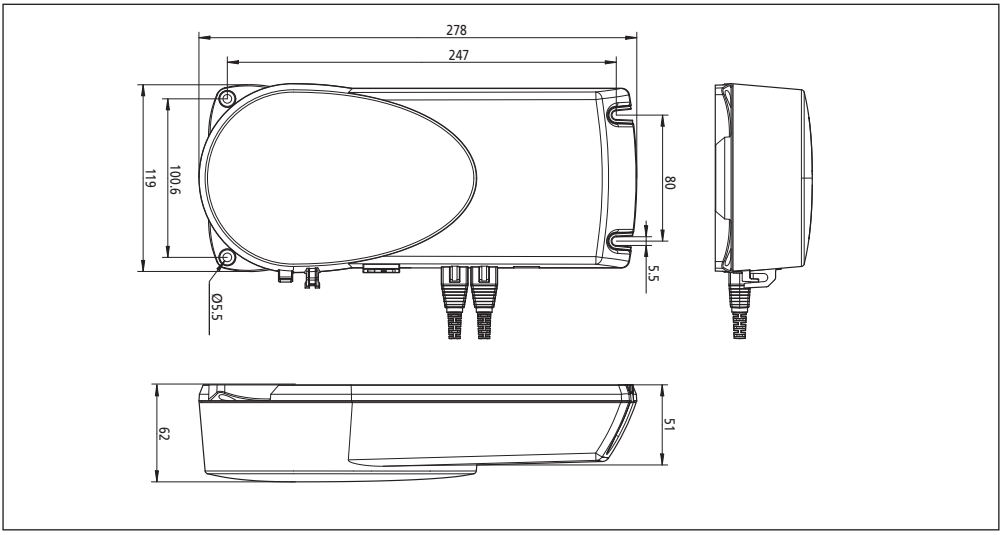
DB5 lifting unit



DB6 lifting unit



CBD4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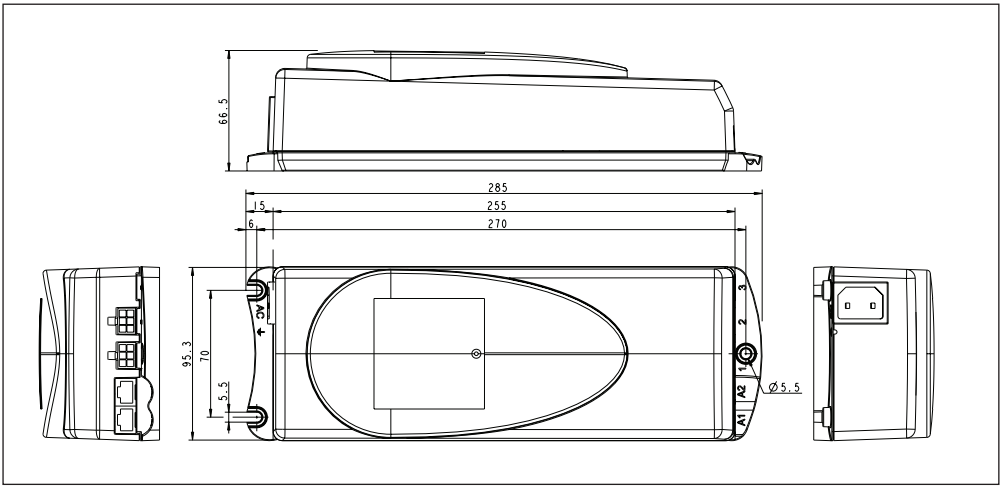
CBD5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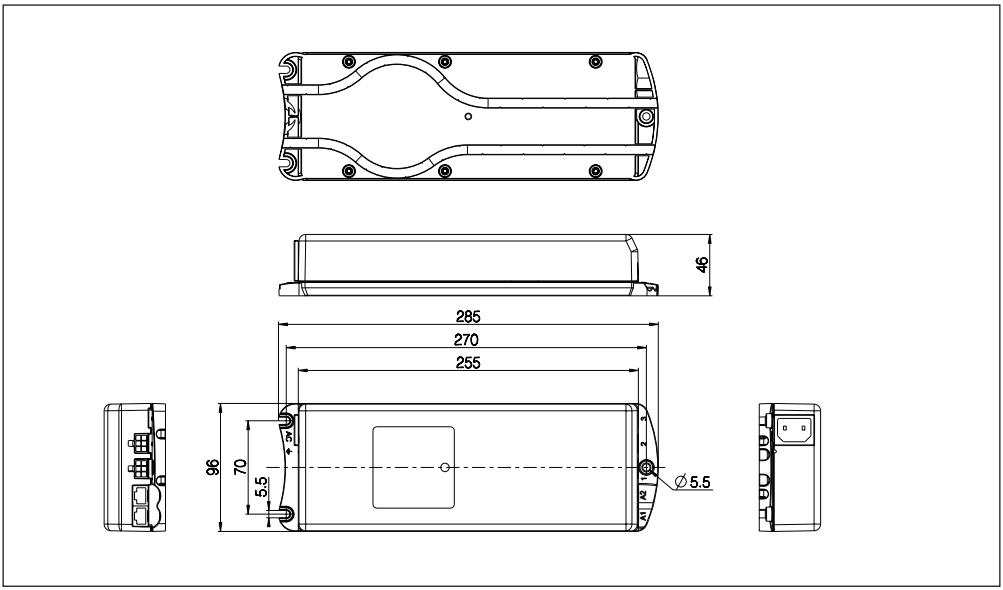
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DECLARATION OF CONFORMITY

LINAK A/S
Smedevænget 8
DK - 6430 Nordborg

hereby declares that LINAK Actuator System composed of:

Control Box(s)	CBD4, CBD5, CBD6	
And		
Linear Actuator(s)	31xxxH-xxxxx50S, DB4, DB5, DB6, DB7, DB9, DB14, DB16	and / or
Lifting Column(s)	DL1A, DL2, DL4, DL5, DL6, DL7, DL8, DL9, DL10, DL11, DL14, DL15, DL16	
And		
Desk Panel(s)	DP1C, DP1K, DPT, DPB, DPF, DPBK, DP1L, DP1V, DPA, DPH, WDPL1	and / or
Handset(s)	HB2xxF2+00003	

complies with the EMC Directive: 2004/108/EC according to following standards:
EN 61000-6-1:2001, EN 61000-6-3:2001, EN 55022:1998+A2 Class B,

and complies with Low Voltage Directive 2006/95/EC according to the standard:
EN 60335-1:2002+A1:2004+A11:2004+A12:2006+A2:2006+A13:2008

and complies with Machinery Directive 2006/42/EC according to the standard:
EN 13849-1:2008 SRP/CS Cat. B, PL = b and SRESW PL = b

And		
Controls:	RF-transmitter: HB1XRFXXXX	and/or
	RF-transmitter: HB2XRFXXXX	and/or
	RF-receiver: RFRL	

complies with the Radio equipment and Telecommunications terminal equipment Directive 1999/5/EC:
EN 300220-2:2006, EN 61000-6-1:2007, EN 61000-6-3:2007,
EN 60335-1:2002+A1:2004+A11:2004+A12:2006+A2:2006+A13:2008, EN 62311:2008

Nordborg, 2011-05-25

LINAK A/S
John Kling, B.Sc.E.E.
Certification and Regulatory Affairs
Authorized to compile the relevant technical documentation

Original Declaration

LINAK APPLICATION POLICY

The purpose of the application policy is to define areas of responsibilities in relation to applying a LINAK product defined as hardware, software, technical advice, etc. related to an existing or new customer application.

LINAK products as defined above are applicable for a wide range of applications within the Medical, Furniture, Desk and Industry areas. Yet, LINAK cannot know all the conditions under which LINAK products will be installed, used, and operated, as each individual application is unique.

The suitability and functionality of the LINAK product and its performance under varying conditions (application, vibration, load, humidity, temperature, frequency, etc.) can only be verified by testing, and shall ultimately be the responsibility of the LINAK customer using any LINAK product.

LINAK shall be responsible solely that the LINAK products comply with the specifications set out by LINAK and it shall be the responsibility of the LINAK customer to ensure that the specific LINAK product can be used for the application in question.

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